

```

SELECT antibody and singlet oxygen
      2492080  ANTIBODY
      14431   SINGLET OXYGEN
S1      184   SELECT ANTIBODY AND SINGLET OXYGEN

```

```

?
? e au=wentworth
Ref  Items  Index-term
E1      1  AU=WENTWOORD, R
E2      1  AU=WENTWOORD, RAR
E3      4  AU=WENTWORTH
E4      9  AU=WENTWORTH A
E5      1  AU=WENTWORTH A A
E6      8  AU=WENTWORTH A D
E7      1  AU=WENTWORTH A F
E8     10  AU=WENTWORTH A L
E9     32  AU=WENTWORTH A.D.
E10     57  AU=WENTWORTH AD
E11      7  AU=WENTWORTH AL
E12      1  AU=WENTWORTH ALICE L
E13     28  AU=WENTWORTH ANITA D
E14     35  AU=WENTWORTH B
E15    109  AU=WENTWORTH B B
E16    145  AU=WENTWORTH B C
E17      2  AU=WENTWORTH B H
E18     21  AU=WENTWORTH B M
E19      6  AU=WENTWORTH B.
E20     22  AU=WENTWORTH B.B.
E21      8  AU=WENTWORTH B.C.
E22      2  AU=WENTWORTH B.H.
E23     12  AU=WENTWORTH B.M.
E24     10  AU=WENTWORTH BB
E25     22  AU=WENTWORTH BC
      Enter PAGE for more

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? e au=wentworth, p?
Ref  Items  Index-term
E1      1  AU=WENTWORTH, P.
E2      1  AU=WENTWORTH, P. R.
E3      0  AU=WENTWORTH, P?
E4     14  AU=WENTWORTH, PA
E5      2  AU=WENTWORTH, PATRICK R
E6      3  AU=WENTWORTH, PAUL
E7      3  AU=WENTWORTH, PAUL JR
E8     17  AU=WENTWORTH, PAUL, JR
E9      1  AU=WENTWORTH, PEGGY A
E10     1  AU=WENTWORTH, PETER
E11     1  AU=WENTWORTH, PRESTON R.
E12     2  AU=WENTWORTH, R
E13     1  AU=WENTWORTH, R H
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E15     4  AU=WENTWORTH, R. A. D
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E17     4  AU=WENTWORTH, R. C.
E18     1  AU=WENTWORTH, R. H.
E19     8  AU=WENTWORTH, R. L.
E20     1  AU=WENTWORTH, R. S.
E21    14  AU=WENTWORTH, R.C.
E22     2  AU=WENTWORTH, R.L.
E23     2  AU=WENTWORTH, R.P.
E24     3  AU=WENTWORTH, R.S.
E25     1  AU=WENTWORTH, RA
      Enter PAGE for more

```

absingletoxygen.txt

? s e1-e4, e6-e8

1 AU=WENTWORTH, P.
1 AU=WENTWORTH, P. R.
0 AU=WENTWORTH, P?
14 AU=WENTWORTH, PA
3 AU=WENTWORTH, PAUL
3 AU=WENTWORTH, PAUL JR
17 AU=WENTWORTH, PAUL, JR
S2 39 S E1-E4, E6-E8

? s s2 and antitobdy

39 S2
0 ANTITOBODY
S3 0 S S2 AND ANTITOBODY

? s s2 and antibody

39 S2
2492080 ANTIBODY
S4 17 S S2 AND ANTIBODY

? s s1 and hematoporiphyrin

184 S1
0 HEMATOPORIPHYRIN
S5 0 S S1 AND HEMATOPORIPHYRIN

? s hematoporiphyrin

S6 0 S HEMATOPORIPHYRIN

? d s

Set	Items	Description
S1	184	SELECT ANTIBODY AND SINGLET OXYGEN
S2	39	S E1-E4, E6-E8
S3	0	S S2 AND ANTITOBODY
S4	17	S S2 AND ANTIBODY
S5	0	S S1 AND HEMATOPORIPHYRIN
S6	0	S HEMATOPORIPHYRIN

? t s4/3,k/1-17

4/3,K/1 (Item 1 from file: 8) Links
Fulltext available through: STIC Full Text Retrieval Options
Ei Compendex(R)
(c) 2008 Elsevier Eng. Info. Inc. All rights reserved.
07002109 E.I. No: EIP94121503184
Title: Catalytic antibodies. The generation of novel biocatalysts

Author: Blackburn, G. Michael; wentworth, Paul
Corporate Source: Univ of Sheffield, Sheffield, Engl
Source: Chemistry and Industry (London) n 9 May 2 1994. p 338-342
Publication Year: 1994
CODEN: CHINAG ISSN: 0009-3068
Language: English

Author: Blackburn, G. Michael; wentworth, Paul
Abstract: ...acids. Two methods have been used for the direct introduction of catalytic groups into the antibody combining site: chemical modification and site-specific mutagenesis. 42.
Descriptors: *Biocatalysts; Antibodies; Synthesis (chemical); Antigen-antibody reactions; Immunology; Amino acids; Monoclonal antibodies; Animal cell culture; Chemical modification; Genetic engineering
Identifiers: Catalytic antibodies; Haptenic groups; Transition state analogs; Amino acid residues; Electrostatic complementarity; Charged haptens; Antibody modification; Site-specific mutagenesis; Polyclonal antibodies; Abzymes

absingletoxygen.txt

4/3,K/2 (Item 1 from file: 24) Links
Fulltext available through: STIC Full Text Retrieval Options
CSA Life Sciences Abstracts
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0003031994 IP Accession No: 7340292
Antibody-catalyzed anaerobic destruction of methamphetamine

Xu, Yang; Hixon, Mark S; Yamamoto, Noboru; McAllister, Laura A; Wentworth, Anita D; Wentworth, Paul Jr; Janda, Kim D Departments of Chemistry and Immunology, The Skaggs Institute for Chemical Biology, and The Worm Institute for Research and Medicine, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037
Proceedings of the National Academy of Sciences, USA , v 104 , n 10 , p 3681-3686 , March 6, 2007
Publication Date: 2007
Publisher: National Academy of Sciences, 2101 Constitution Ave. Washington DC 20418 USA

Document Type: Journal Article

Record Type: Abstract

Language: English

Summary Language: English

ISSN: 0027-8424

Electronic Issn: 1091-6490

File Segment: Immunology Abstracts

Antibody-catalyzed anaerobic destruction of methamphetamine

Xu, Yang; Hixon, Mark S; Yamamoto, Noboru; McAllister, Laura A; Wentworth, Anita D; Wentworth, Paul Jr; Janda, Kim D

Abstract:

...being sought for its treatment. Herein, we report the generation and characterization of a monoclonal antibody, YX1-40H10, that catalyzes the photooxidation of (+)-2 into the nonpsychoactive compound benzaldehyde (14) under anaerobic conditions in the presence of riboflavin (6). Studies have revealed that the antibody facilitates the conversion of (+)-2 into 14 by binding the triplet photoexcited state of 6 in proximity to (+)-2. The antibody binds riboflavin ($K_{sub(d)} = 180 \mu M$), although this was not programmed into happen...

4/3,K/3 (Item 2 from file: 24) Links
Fulltext available through: STIC Full Text Retrieval Options
CSA Life Sciences Abstracts
(c) 2008 CSA. All rights reserved.
0002977770 IP Accession No: 6749248
Cofactor-containing antibodies: Crystal structure of the original yellow antibody

Zhu, Xueyong; Wentworth, Paul Jr; Kyle, Robert A; Lerner, Richard A; Wilson, Ian A Departments of Molecular Biology and Chemistry, and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037
Proceedings of the National Academy of Sciences, USA , v 103 , n 10 , p 3581-3585 , March 7, 2006
Publication Date: 2006
Publisher: National Academy of Sciences, 2101 Constitution Ave. Washington DC 20418 USA

Document Type: Journal Article

Record Type: Abstract

Language: English

Summary Language: English

ISSN: 0027-8424

Electronic Issn: 1091-6490

File Segment: Immunology Abstracts

absingletoxygen.txt

Cofactor-containing antibodies: Crystal structure of the original yellow antibody
Zhu, Xueyong; Wentworth, Paul Jr; Kyle, Robert A; Lerner, Richard A; Wilson, Ian A

Abstract:

...further link between riboflavin and antibodies was discovered 30 years ago when a bright-yellow antibody, IgG super(GAR), was purified from a patient with multiple myeloma who had turned yellow... ..the course of her disease. It was subsequently shown that the yellow color of this antibody was due to riboflavin binding. However, it was not known how and where riboflavin was bound to this antibody. We now report the crystal structure of this historically important IgG super(GAR) Fab at... ..riboflavin binding. The ligand specificity of IgG super(GAR) is compared with another riboflavin-binding antibody, IgG super(DOT), which was purified from a second patient with multiple myeloma. The crystal...

4/3,K/4 (Item 3 from file: 24) Links

Fulltext available through: STIC Full Text Retrieval Options

CSA Life Sciences Abstracts

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0001469758 IP Accession No: 3714013

Patients with chronic hepatitis C have circulating cytotoxic T cells which recognize hepatitis C virus-encoded peptides binding to HLA-A2.1 molecules

Battegay, M; Fikes, J; Di Bisceglie, AM; Wentworth, PA; Sette, A ; Celis, E; Ching, W-M; Grakoui, A; Akatsuka, T*; et al. Lab. Hepatitis Res., Div. Viro., CBER, FDA, Bethesda, MD 20892, USA

Journal of Virology , v 69 , n 4 , p 2462-2470 , 1995

Addl. Source Info: Journal of Virology [J. VIROL.], vol. 69, no. 4, pp. 2462-2470, 1995

Publication Date: 1995

Document Type: Journal Article

Record Type: Abstract

Language: English

Summary Language: English

ISSN: 0022-538X

File Segment: Virology & AIDS Abstracts; Immunology Abstracts

Battegay, M; Fikes, J; Di Bisceglie, AM; Wentworth, PA; Sette, A ; Celis, E; Ching, W-M; Grakoui, A; Akatsuka, T*; et al.

Abstract:

...whereas two patients who had recovered from HCV infection had almost no CTL responses. Monoclonal antibody blocking experiments performed for two epitopes demonstrated a class I- and HLA-A2-restricted CTL...

4/3,K/5 (Item 1 from file: 98) Links

General Sci Abs

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5820764 H.w. Wilson Record Number: BGSA06117496

Cofactor-containing antibodies: Crystal structure of the original yellow antibody

Zhu, Xueyong

Wentworth, Paul Jr; Kyle, Robert A

Proceedings of the National Academy of Sciences of the United States of America v. 103 no10 (March 7 2006) p. 3581-5

Document Type: Feature Article

Special Features: Bibliographic Footnote Illustration Table ISSN: 0027-8424

Language: English

Country Of Publication: United States

Cofactor-containing antibodies: Crystal structure of the original yellow antibody
Wentworth, Paul Jr...

4/3,K/6 (Item 2 from file: 98) Links

General Sci Abs

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05462643 H.w. Wilson Record Number: BGSA04212643

Probing the antibody-catalyzed water-oxidation pathway at atomic resolution.

Zhu, Xueyong

Wentworth, Paul,Jr; Wentworth, Anita D

Proceedings of the National Academy of Sciences of the United States of America v.

101 no8 (Feb. 24 2004) p. 2247-52

Special Features: bibl f il tab ISSN: 0027-8424

Language: English

Country Of Publication: United States

Probing the antibody-catalyzed water-oxidation pathway at atomic resolution.

Wentworth, Paul,Jr; Wentworth, Anita D

Abstract: ...trioxygen species. Nine different crystal structures were determined to elucidate the chemical consequences to the antibody molecule itself of exposure to such reactive intermediates and to provide insights into the location on the antibody where these species could be generated. Herein, we report structural evidence for modifications of two specific antibody residues within the interfacial region of the variable and constant domains of different murine antibody antigen-binding fragments (Fabs) by reactive species generated during the antibody-catalyzed water oxidation process. Crystal structure analyses of murine Fabs 4C6 and 13G5 after UV... ..interfacial region of the constant and variable domains and highlight the general resistance of the antibody molecule to oxidation by reactive oxygen species generated during the water-oxidation process. Reprinted by...

4/3,K/7 (Item 3 from file: 98) Links

General Sci Abs

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05209309 H.w. Wilson Record Number: BGSA03209309

Evidence for the production of trioxygen species during antibody -catalyzed chemical modification of antigens.

Wentworth, Paul,Jr

Wentworth, Anita D; Zhu, Xueyong

Proceedings of the National Academy of Sciences of the United States of America v.

100 no4 (Feb. 18 2003) p. 1490-3

Special Features: bibl f graph il ISSN: 0027-8424

Language: English

Country Of Publication: United States

Evidence for the production of trioxygen species during antibody -catalyzed chemical modification of antigens.

Wentworth, Paul,Jr

Abstract: The generation of highly reactive intermediates via the antibody -catalyzed water-oxidation process was investigated. The antibody -catalyzed water-oxidation process was found to be capable of regioselectively converting antibody-bound benzoic acid into para-hydroxy benzoic acid and of regioselectively hydroxylating the 4-position of the phenyl ring of a single tryptophan residue located in the antibody molecule. The occurrence of these highly selective chemical reactions indicates the formation of a short-lived hydroxylating radical species within the antibody molecule. Given that a previously presented hypothesis holds that the singlet oxygen-induced antibody -catalyzed water oxidation pathway proceeds via the formation of dihydrogen trioxide (H₂O₃), these findings indicate...

Descriptors:

Antigen-antibody complexes; Water...

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4/3,K/8 (Item 4 from file: 98) Links

General Sci Abs

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05201526 H.w. Wilson Record Number: BGSA03201526

Evidence for Antibody-Catalyzed Ozone Formation in Bacterial Killing and Inflammation.

Wentworth, Paul,Jr

McDunn, Jonathan E; Wentworth, Anita D

Science (Science) v. 298 (Dec. 13 2002) p. 2195-9

Document Type: Feature Article

Special Features: bibl f graph il ISSN: 0036-8075

Language: English

Country Of Publication: United States

Evidence for Antibody-Catalyzed Ozone Formation in Bacterial Killing and Inflammation.

Wentworth, Paul,Jr

Abstract: ...process can lead to efficient killing of bacteria, regardless of the antigen specificity of the antibody. H₂O₂ production by antibodies alone was found to be not sufficient for bacterial killing. Our studies suggested that the antibody-catalyzed water-oxidation pathway produced an additional molecular species with a chemical signature similar to...

4/3,K/9 (Item 5 from file: 98) Links

General Sci Abs

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04864741 H.w. Wilson Record Number: BGSA02114741

Antibody design by man and nature.

Wentworth, Paul,Jr

Science (Science) v. 296 no5576 (June 21 2002) p. 2247-9

Special Features: bibl f diag flow chart ISSN: 0036-8075

Language: English

Country Of Publication: United States

Antibody design by man and nature.

Wentworth, Paul,Jr

Abstract: ...immunized with a stable analogue of the transition state for a given reaction, and the antibody-generating cells are harvested and immortalized using hybridoma technology; in the latter method, a DNA... members of the protein library on its surface, and this approach is used to generate antibody Fab or scFV libraries. Antibodies have proven to be peerless designer catalysts because of their...

4/3,K/10 (Item 6 from file: 98) Links

General Sci Abs

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04852582 H.w. Wilson Record Number: BGSA02102582

A cofactor approach to copper-dependent catalytic antibodies.

Nicholas, Kenneth M

Wentworth, Paul,Jr; Harwig, Curtis W

Proceedings of the National Academy of Sciences of the United States of America v.

99 no5 (Mar. 5 2002) p. 2648-53

Special Features: bibl f graph il tab ISSN: 0027-8424

Language: English

Country Of Publication: United States

Wentworth, Paul,Jr; Harwig, Curtis W

Abstract: ...involves incorporating a metal-binding bis-imidazole cofactor into the

absingletoxygen.txt

combining site of the aldolase antibody 38C2. This antibody has a large hydrophobic-combining site pocket with a highly nucleophilic, covalently modifiable lysine residue...

4/3,K/11 (Item 7 from file: 98) Links

General Sci Abs

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04673503 H.w. Wilson Record Number: BGSA01173503

Antibody catalysis of the oxidation of water.

Wentworth, Paul, Jr

Jones, Lyn H; Wentworth, Anita D

Science (Science) v. 293 no5536 (Sept. 7 2001) p. 1806-11

Special Features: bibl f graph il ISSN: 0036-8075

Language: English

Country Of Publication: United States

Antibody catalysis of the oxidation of water.

Wentworth, Paul, Jr

Abstract: ...X-ray crystallographic studies with xenon point to putative conserved oxygen binding sites within the antibody fold where this chemistry could be initiated. Our findings suggest a protective function of immunoglobulins...

4/3,K/12 (Item 8 from file: 98) Links

General Sci Abs

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04508219 H.w. Wilson Record Number: BGSA01008219

Conversion of enediynes into quinones by antibody catalysis and in aqueous buffers: implications for an alternative enediyne therapeutic mechanism.

Jones, Lyn H

Harwig, Curtis W; Wentworth, Paul

Journal of the American Chemical Society (J Am Chem Soc) v. 123 no15 (Apr. 18 2001) p. 3607-8

Special Features: bibl il ISSN: 0002-7863

Language: English

Country Of Publication: United States

Conversion of enediynes into quinones by antibody catalysis and in aqueous buffers: implications for an alternative enediyne therapeutic mechanism.

Harwig, Curtis W; Wentworth, Paul

Abstract: A unique conversion of enediynes into quinones was discovered, and a new antibody catalyst was evolved. The conversion occurs in aerated aqueous solution and is not only of... ...may be of relevance to the therapeutic mechanism of naturally occurring enediyne antibiotics. The new antibody catalyst catalyzes the conversion of a stable cyclic enediyne substrate via a diyl intermediate into the relevant quinone product. The findings push back the boundary of antibody-catalyzed reactions and the reactive intermediates that they are known to handle and opens up...

4/3,K/13 (Item 9 from file: 98) Links

General Sci Abs

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04384016 H.w. Wilson Record Number: BGSA00134016

Antibodies have the intrinsic capacity to destroy antigens.

Wentworth, Anita D

Jones, Lyn H; Wentworth, Paul, Jr

Proceedings of the National Academy of Sciences of the United States of America v. 97 no20 (Sept. 26 2000) p. 10930-5

Special Features: bibl il ISSN: 0027-8424

Language: English
Country Of Publication: United States
Jones, Lyn H; Wentworth, Paul, Jr

Abstract: A previously unrecognized chemical potential intrinsic to the antibody molecule in the immune system was investigated. For killing, the antibody molecule activates additional systems that respond to antibody-antigen union. All antibodies examined, irrespective of source or antigenic specificity, could convert molecular oxygen...

4/3,K/14 (Item 10 from file: 98) Links

General Sci Abs

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04362883 H.W. Wilson Record Number: BGSA00112883

Antibody-catalysis of a bimolecular asymmetric 1,3-dipolar cycloaddition reaction.

Toker, Jonathan D

Wentworth, Paul, Jr; Hu, Yunfeng

Journal of the American Chemical Society (J Am Chem Soc) v. 122 no13 (Apr. 5 2000)
p. 3244-5

Special Features: bibl il ISSN: 0002-7863

Language: English

Country Of Publication: United States

Antibody-catalysis of a bimolecular asymmetric 1,3-dipolar cycloaddition reaction.

Wentworth, Paul, Jr; Hu, Yunfeng

Abstract: An antibody-catalyzed 1,3-dipolar cycloaddition reaction between N,N-dimethylacrylamide and a benzonitrile N-oxide produced 5-acylisoxazoline, representing the first example of an antibody -catalyzed bimolecular {3 + 2} pericyclic process, is reported. The findings reaffirm the aptitude with which antibody catalysts are able to simultaneously control reactive intermediates and stereo- and regiochemical reaction outcomes.

4/3,K/15 (Item 11 from file: 98) Links

General Sci Abs

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03786603 H.W. Wilson Record Number: BGSI98036603

A bait and switch hapten strategy generates catalytic antibodies for phosphodiester hydrolysis.

Wentworth, Paul, Jr

Liu, Yunqi; Wentworth, Anita D

Proceedings of the National Academy of Sciences of the United States of America (Proc Natl Acad Sci U S A) v. 95 no11 (May 26 '98) p. 5971-5

Special Features: bibl il ISSN: 0027-8424

Language: English

Country Of Publication: United States

Wentworth, Paul, Jr

Abstract: ...revealed the powerful utility of a bait and switch hapten paradigm for the generation of antibody catalysis. By producing antibodies to a quaternary ammonium hapten, it proved possible to elicit the most catalytically proficient antibody, MATT.F-1, for phosphodiester hydrolysis yet reported. It may now prove possible to design...

4/3,K/16 (Item 12 from file: 98) Links

General Sci Abs

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03511206 H.W. Wilson Record Number: BGSI97011206

Antibody catalysis of BAc2 aryl carbamate ester hydrolysis: a highly disfavored

chemical process.

Wentworth, Paul, Jr
 Datta, Anita; Smith, Simon
 Journal of the American Chemical Society (J Am Chem Soc) v. 119 (Mar. 5 '97) p.
 2315-16
 Document Type: Feature Article
 Special Features: bibl il ISSN: 0002-7863
 Language: English
 Country Of Publication: United States
 Antibody catalysis of BAC2 aryl carbamate ester hydrolysis: a highly disfavored
 chemical process.
 Wentworth, Paul, Jr

Abstract: An antibody that catalyzes the hydrolysis of aryl carbamate esters via a
 BAC2 mechanism is reported. Conventional...

4/3,K/17 (Item 13 from file: 98) Links
 General Sci Abs
 (c) 2008 The HW Wilson Co. All rights reserved.
 03257050 H.W. Wilson Record Number: BGS196007050
 Toward antibody-directed "abzyme" producing therapy, ADAPT: carbamate prodrug
 activation by a catalytic antibody and its in vitro application to human tumor cell
 killing.

Wentworth, Paul
 Datta, Anita; Blakey, David
 Proceedings of the National Academy of Sciences of the United States of America (
 Proc Natl Acad Sci U S A) v. 93 (Jan. 23 '96) p. 799-803
 Document Type: Feature Article
 Special Features: bibl il ISSN: 0027-8424
 Language: English
 Country Of Publication: United States
 Toward antibody-directed "abzyme" producing therapy, ADAPT: carbamate prodrug
 activation by a catalytic antibody and its in vitro application to human tumor cell
 killing.
 Wentworth, Paul

Abstract: The possibility that humanized catalytic antibodies ("abzymes") could
 replace the bacterial enzyme component of antibody-directed enzyme prodrug therapy
 (ADEPT) in an improved targeted therapy was explored. ADEPT aims to... ..systems is
 reduced by the immunogenicity of their bacterial enzyme component. The study
 identified an antibody that can effectively hydrolyze a carbamate prodrug and thus
 influence cytotoxicity in vitro. In vitro... ..viability of cultured human colonic
 carcinoma cells. The new system has been named ADAPT for antibody-directed abzyme
 prodrug therapy.

? e au=lerner, richard

Ref	Items	Index-term
E1	1	AU=LERNER, RE
E2	1	AU=LERNER, REUVEN M
E3	6	AU=LERNER, RICHARD
E4	56	AU=LERNER, RICHARD A
E5	16	AU=LERNER, RICHARD A.
E6	1	AU=LERNER, RICHARD ALLEN
E7	5	AU=LERNER, RICHARD M
E8	1	AU=LERNER, RITA G
E9	1	AU=LERNER, RITA G.
E10	10	AU=LERNER, ROBERT
E11	2	AU=LERNER, ROBERT A.
E12	8	AU=LERNER, ROBERT M.
E13	2	AU=LERNER, ROBERT S

absingletoxygen.txt

E14 2 AU=LERNER, ROCHELLE
E15 4 AU=LERNER, RONEN
E16 1 AU=LERNER, RS
E17 1 AU=LERNER, RW
E18 14 AU=LERNER, S
E19 1 AU=LERNER, S P
E20 4 AU=LERNER, S.
E21 1 AU=LERNER, S. L.
E22 1 AU=LERNER, S.A.
E23 1 AU=LERNER, S.B.
E24 1 AU=LERNER, S.C.
E25 1 AU=LERNER, S.E.
Enter PAGE for more

? s e3-e7

6 AU=LERNER, RICHARD
56 AU=LERNER, RICHARD A
16 AU=LERNER, RICHARD A.
1 AU=LERNER, RICHARD ALLEN
5 AU=LERNER, RICHARD M
S7 84 S E3-E7